

# Experience of modeling relief of impact lunar crater Aitken based on high-resolution orbital images

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## Abstract

© Published under licence by IOP Publishing Ltd. The paper presents the author's results of modeling the relief of lunar Aitken crater on the basis of high-resolution orbital images. The images were taken in the frame of the "Apollo" program in 1971-1972 and delivered to the Earth by crews of "Apollo-15" and "Apollo-17". The authors used the images obtained by metric and panoramic cameras. The main result is the careful study of the unusual features of Aitken crater on models created by the authors with the computer program, developed by "Agisoft Photoscan". The paper shows what possibilities are opened with 3D models in the study of the structure of impact craters on the Moon. In particular, for the first time, the authors managed to show the structure of the glacier-like tongue in Aitken crater, which is regarded as one of the promising areas of the Moon for the forthcoming expeditions.

<http://dx.doi.org/10.1088/1742-6596/1015/3/032131>

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